

1 ttgcaggctg ctgggctgg gctaagggtc gtcagttt cttcagcggg gcactggaa
61 gcccattggc actgcaggcc atctcggtcg tggagctgtc cggcctggcc ccggggccgt
121 tctgtgtat ggctctggct gacttcgggg cgctgtgtt acgcgtggac cgccccggct
181 cccgctacga cgtgagccgc ttgggcccc gcaagcgctc gctagtgtc gacctgaagc
241 agccgcgggg agccgcggc ctgcggcgctc tgtgcaagcg gtcggatgtc ctgctggagc
301 cttccgcgg cggtgtcatg gagaaaactcc agctgggccc agagattctg cagcgggaaaa
361 atccaaggct tatttatgcc aggtgagtg gatttggcca gtcaggaagc ttctgcccgg
421 tagctggcca cgatataac tatttggctt tgtcagggtt tctctaaaa attggcagaa
481 gtggtgagaa tccgtatgcc ccgctgaatc tcctggctga ctttgcgtt ggtggcccta
541 tttgtgcact gggcattata atggctttt ttgaccgcac acgcactggc aagggtcagg
601 tcattgtatgc aaatatggtg gaaggaacag catatthaag ttctttctg tgaaaaactc
661 agaaatcgag tctgtggaa gcacctcgag gacagaacat gttggatggt ggagcacctt
721 ttatatacgac ttacaggaca gcagatgggg aattcatggc tttttggagca atagaacccc
781 agttctacga gctgctgatc aaaggactt gactaaagtc tgatgaactt cccaatcaga
841 tgagcatgga tgattggcca gaaatgaaga agaagtttc agatgtattt gcaaagaaga
901 cgaaggcaga gtgggtgtcaa atcttgacg gcacagatgc ctgtgtgact ccggttctg
961 cttttgagga gttgtttcat catgatcaca acaaggaacg gggctcggtt attaccagt
1021 agggcagga cgtgagcccc cgcctgcac ctctgctttt aaacacccca gccatccctt
1081 ctttcaaaaag ggatcccttc ataggagaac acactgagga gataactgaa gaatttggat
1141 tcagccgcga agagatttat cagcttaact cagataaaat cattgaaaagt aataaggtaa
1201 aagcttagtct ctaacttcca ggcccacggc tcaagtgaat ttgaatactg catttacagt
1261 gtagagtaac acataacatt gtatgcatttgg aaacatggag gaacagtattt acagtgtcct
1321 accactctaa tcaagaaaag aattacagac tctgattcta cagtgtatgat tgaattctaa
1381 aaatggttat cattagggtt tttgattttt aaaaactttgg gtacttatac taaattatgg
1441 tagttattct gccttcagg ttgcttgata tattttgttga tattaagatt ctgtacttat
1501 attttgaatg gtttctatgt aaaaaggaat gatatattt tgaagacatc gatatacatt
1561 tatttacact cttgattcta caatgttagaa aatgaggaaa tgccacaaat tttatggtga
1621 taaaagtca gtaaacacaga gtgattgggtt gcatccaggc cttttgtctt ggtgttcatg
1681 atctccctct aagcacattc caaacttttag caacagttt cacactttgtt aatttgcaaa
1741 gaaaagtttc acctgtattt aatcagaatg cttcaactg aaaaaaaacat atccaaaata
1801 atgaggaaat gtgttgctc actacgttaga gtccagaggg acagtcgtt tttaggttgc
1861 ctgtatccag taactgggg cctgtttccc cgtgggtctc tggctgtca gctttccctt
1921 ctccatgtgtt ttgatttctc ctcaggctgg tagcaagttc tggatctt acccaacaca
1981 cagcaacatc cagaaataaa gttct

FIGURE 1

MALQGISVVELSGLAPGFCAMVLADFGARVVVRDRPGSRYDVSLRGLRGKRSVLSDLKQPRGAALVRLRCK
RSDVLLEPFRRGVMEKLQLGPPEILQRENPRLIYARLSFGQSGSFCLRAGHDINYLALSGLVLSKIGRSGEN
PYAPLNLLADFAGGGLMCALGIIMALFDRTRTGKQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMML
DGGAPFYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSDELPNQMSDDWPEMKKFADVFAKTKAEWC
QIFDGTDACTVPVLTFEEVVHHDHNKERGSFITSEEQDVSPRPAPLLNTPAIIPSFKRDPFIGEHTEEILE
EFGFSREIYQLNSDKIESNKVKASL

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FIGURE 2

FIG. 3

SV1 (AMACR Isoform 1; >FMhx_m_44226FL01)
GGGCGCCGGGATTGGGAGGGCTTCTGCAGGCTGCTGGGCTGGGGCTAAG
GGCTGCTCAGTTCTTCAGCGGGGCACTGGAAAGGCCATGGCACTGCA
GGGCATCTCGGTGAGCTGTCCGGCTGGCCCCGGGCGTGTGGTACGCGTGGACCGGCC
GGCTCCCGCTACGACGTGAGCCGCTTGGGCCGGGCAAGCGCTCGTAGT
GCTGGACCTGAAGCAGCCGGGGAGCCGCGTGCTGCAGCGTCTGTGCA
AGCGGTGGATGTGCTGAGCCCTTCGCCCGCGGTGTCATGGAGAAA
CTCCAGCTGGGCCAGAGATTCTGCAGCGGGAAAATCCAAGGCTTATT
TGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTCTGCCGGTTAGCTG
GCCACGATATCAACTATTGGCTTGTCAAGGTGTTCTCTCAAAAATTGGC
AGAAGTGGTGAGAATCCGTATGCCCGCTGAATCTCCTGGCTGACTTGC
TGGTGGTGGCTTATGTGTCAGTGGCATTATAATGGCTTTTGACC
GCACACCGACTGGCAAGGGTCAGGTATTGATGCAAATATGGTGAAGGA
ACAGCATATTAAAGTTCTTCTGTGAAAACCTCAGAAATCGAGTCTGTG
GGAAGCACCTCGAGGACAGAACATGTTGGATGGTGGAGCACCTTCTATA
CGACTTACAGGACAGCAGATGGGAATTCATGGCTGTTGGAGCAATAGAA
CCCCAGTTCTACGAGCTGCTGATCAAAGGACTGGACTAAAGTCTGATGA
ACTTCCAATCAGATGAGCATGGATGATTGGCAGAAATGAAGAAGAAGT
TTGCAGATGTATTGCAAAGAAGACGAAGGAGAGTGGTGTCAAATCTT
GACGGCACAGATGCCGTGTGACTCCGGTTCTGACTTTGAGGAGGTTGT
TCATCATGATCACACAAGAACGGGCTCGTTATCACCAGTGAGGAGC
AGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTTAACACCCCCAGCCATC
CCTTCTTCAAAGGGATCCTTCATAGGAGAACACACTGAGGAGATACT
TGAAGAATTGGATTCAAGCCGAAGAGATTATCAGCTTAACTCAGATA
AAATCATTGAAAGTAATAAGGAAAAGCTAGTCTAACTCCAGGCCA
CGGCTCAAGTGAATTGAATACTGCATTACAGTGTAGAGTAACACATAA
CATTGTATGCATGGAAACATGGAGGAACAGTATTACAGTGTCTACCACT
CTAATCAAGAAAAGAATTACAGACTCTGATTCTACAGTGATGATTGAATT
CTAAAAATGGTTATCATTAGGGCTTTGATTATAAAACTTGGTACTT
ATACTAAATTATGGTAGTTATTCTGCCTTCCAGTTGCTGATATATTG
TTGATATTAAGATTCTTGACTTATTTGAATGGGTTCTAGTGAAAAG
GAATGATATATTCTGAAGACATCGATATAACATTATTTACACTCTTGAT
TCTACAATGTAGAAAATGAGGAATGCCACAAATTGTATGGTATAAAAG
TCACGTGAAACAGAGTGATTGGTGCATCCAGGCCTTGTCTGGTGT
CATGATCTCCCTCAAGCACATTCAAACATTAGCAACAGTTATCACACT
TTGTAATTGCAAAGAAAAGTTCACCTGTATTGAATCAGAATGCCCTCA
ACTGAAAAAAACATATCCAAAATAATGAGGAATGTGTTGGCTCACTACG
TAGAGTCCAGAGGGACAGTCAGTTAGGGTGCCTGTATCCAGTAAC
GGGGCCTGTTCCCGTGGCTCTGGGCTGTAGCTTCCCTTCTCCAT
GTGTTGATTCTCCTCAGGCTGGTAGCAAGTCTGGATCTTACCCAA
CACACAGCAACATCCAGAAATAAGATCTCAGGACCCCCAAAAAA
AAAAAAAAAAAAAAAAA (SEQ ID NO:4)

FIG. 4

SV1 (>FMhx_m_44226FL01_P1)
MALQGISVVELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSVLSDLKQP
RGAAVLRRLCRSDVLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLA
GHDINYLALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFDRTTGKGQVI
DANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQF
YELLIKGLGLKSDELPNQMSMDDWPEMKKKFADVFAKKTKAEWCQIFDGTDACVTPVLT
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIPSKRDPFIGEHTEEILEFGFS
REEIYQLNSDKIIIESNKVKASL (SEQ ID NO:5)

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TO ANYONE.

FIG. 5A

SV2 (AMACR Isoform 2 ; >FMhx_m_44226FL02

GGGCGCCGGGATTGGGAGGGCTTCTTGCAGGCTGCTGGGCTGGGCTAAG
GGCTGCTCAGTTCTTCAGCGGGCACTGGGAAGCGCCATGGCACTGCA
GGGCATCTCGGTCTGGAGCTGTCCGGCCTGGCCCCGGGCCGTTCTGTG
CTATGGCCTGGCTGACTTCGGGCGCTGTGGTACCGTGGACCGGCCC
GGCTCCGCTACCGACGTGAGCCGCTGGGCCGGGCAAGCGCTCGCTAGT
GCTGGACCTGAAGCAGCCGGGGAGCCGCGCTGCCTGCGGTCTGTGCA
AGCGGTCGGATGTGCTGGAGCCCTTCCGCCGCGGTGTCATGGAGAAA
CTCCAGCTGGGCCAGAGATTCTGCAGCGGGAAATCCAAGGCTTATTAA
TGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCTG
GCCACGATATCAACTATTGGCTTGTCAAGGTGTTCTCTCAAAATTGGC
AGAAGTGGTGAGAATCCGTATGCCCGCTGAATCTCTGGCTGACTTGC
TGGTGGTGGCCTATGTGTCAGTGGCATTATAATGGCTCTTTGACC
GCACACGCACTGGCAAGGGTCAGGTCAATTGATGCAAATATGGTGGAAAGGA
ACAGCATATTAAGTCTTTCTGTGGAAAACAGAAATCGAGTCTGTG
GGAAGCACCTCGAGGACAGAACATGGTGGATGGTGGAGCACCTTCTATA
CGACTTACAGGACAGCAGATGGGAATTCACTGGCTGTTGGAGCAATAGAA
CCCCAGTTCTACCGAGCTGCTGATCAAAGGACTGGACTAAAGTCTGATGA
ACTTCCAATCAGATGAGCATGGATATTGGCCAGAAATGAAGAAGAAGT
TTGAGATGTATTGCAAAGAAGACCAAGGAGCAGAGTGGTGTCAAATCTT
GACGGCACAGATGCCGTGTGACTCCGGTCTGACTTTGAGGAGGTTGT
TCATCATGATCACAAACAAGGAACGGGCTGTTTATCACCAGTGAGGAGC
AGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTTAACACACCCAGCCATC
CCTTCTTCAAAGGGATCTTCATAGGAGAACACACTGAGGAGATACT
TGAAGAATTGGATTCAAGCCGAAGAGATTATCAGCTTAACTCAGATA
AAATCATTGAAAGTAATAAGGCTGGTAGCAAGTTCTGGATCTTACCCCA
ACACACAGCAACATCCAGAAATAAGATCTCAGGACCCCCCAGCAAGTCG
TTTGTTGTCTCCTGGACTGAGTTAAGTACAAGCCTTCTTACCTGT
CTTTGACAAGAAGACGGGATTGTCTTACATAAAACCAGCCTGCTCCTG
GAGCTCCCTGGACTCAACTTCTAAAGGCATGTGAGGAAGGGTAGATT
CCACAACTAACTCCGGGTGCCATCAGAGTAGAGGGAGTAGAGAATGGATG
TTGGTAGGCCATCAATAAGGTCCATTCTGCGCAGTATCTCAACTGCCGT
TCAACAATCGCAAGAGGAAGGTGGAGCAGGTTCTCATCTTACAGTTGA
GAAAACAGAGACTCAGAAGGGCTTCTAGTTCATGTTCCCTAGCGCCT
CAGTGAATTTCATGGTGGCTAGGCCAAAAGAAATATCTAACCAATTCA
ATTTATAAAATAATTAGGTCCCCAACGAATTAAATATTATGTCTAACCAAC
TTATTAGCTGCTGAAAATATAATACACATAAAATAAAAAAATATTTT
TCATTCTATTCAATTGTTAATCACAACACTACTAAGGAGATGTATGC
ACCTATTGGACACTGTGCAACTCTCACCTGGATGAGATTGGACACTGC
TGCCCTCATTCTGCTCCATGTTGGTGTCCATAAGTACTGATTTTT
ATCAGATGGCCTGGAAAACCCAGTCTCACAAAAATATGAAATTATCAGAA
GGATTATAGTGAATCTTATGTTGAAAGAATGAACATACCTCACTAGTAGT
TCACGTGATGTCTGACAGATGTTGAGTTCACTGTGTTGTGTTCAAA
TTTTAAATATTCTGAGATACTCTTGTGAGGTCACTCTAATGCCCTGGGT
GCCTTGGCACAGTTAGAAATACCAAGTTGAAATATTGCTCAGGAATA
TGCAACTAGGAAGGGCAGAATCAGAATTAAAGCTTCAATTCTAGCCT
TCAGTCTTGTCTTCAACCATTAGGAACCTTCCATAAGGTTATGTT
TTCCAGCCCAGGCATGGAGGATCACTTGAGGCCAAGAGTTCGAGACCAGC
CTGGGAACCTGGCTGGACCTCCGTTCTACGAAATAAAAATAAAAAT
TATCCAGGTATGGTGGTGTGCGCTGTAGTCCTATCTACTCAAGGGTGGG

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FIG. 5B

GCAGGAGGATCACTTGAGCCCAGGAATTGAGGCCACAGTGAATTAGGAT
TGCACCACTGCACTCTAGCCCAGGCAACAGAACAGAACCTGTCTCTAA
TAAATAAATAAAAATAATAATAATAAAAAAGATGTTTCCTACAAAAAA
GACTTTCATTTGAACCTGGTCCAGCAAGGAAAATAAACCCACTCGAAG
TCTTTAAAACAGAGGAAATTAAATATAAGAACCTGACTGGTACCGAAAG
AGCAGAGAACGCCAGAAGATAGTGAGGCAACCTGTAGAGAACATAACTA
GGAAGCCAAGACCACCTCTATGGTTGCAGGGGTGATGGGAAAGCTGGTGT
ACTTGGACCCAGAACGCAAAGTTGCTGCACCCACCTGGAGACATAGACA
CTGGCAGTAATACCTCAGGGAGAACAGAAATCTAGGAAATATCCTGG
CTTCTTCCCTCTCTCTCCCCTAGTCTCTACCAGTGTCTCCCCATTA
GCCAAATCTACCTAGAACGCAGAAACAAAGGGAACCCCTGGAAATGTAGCC
CCATAAGATAAAAGAGCACCAAAAGGAAATAGATCTGAGCAGACAGGCAGCA
CAAATGCAGTGTATGGTTATTCACTCAGTAATTCTTAGCAAATG
TTTATTGAGGATCTACTAGGTGCCAGGTATCATGATACTGCTGGGATA
CCATAATGAACAAACAGACCTGTTCTCGCTCTGAGGAAATCAAAGAC
AAACACAGGATATGGAATAAACCCAGAATTATCTCATTGTAAAATGTGTT
AAGTACCACGAGGAGAAATATCAGGCCATCTGACACAGCTAATGATTG
AAGAAGGGTGTGACCTGCCACATTAAATCTAGTTATTCACTCCTGA
GCTGTGTGTGGAAAATGTAGAAAAATAGAATGTCTATATTATA
AAAAGTTATGAAAAGATATCAATTATTACATTGACAAACTCTATG
TAATAAGGCTTATTACTCACGCCATGTGTGATCATGTGAATAGCA
TGTGTGTATGAGAGAGAGAACCATATGTAATTATGTGTAATAACGTCTG
TGAGAGAGAACGCCATGTGTGATCATGTAACGTCGTGAGAGAA
GCCATGTGTGTGATCGTAAACGTCGTGAGAACGCCGTGTGAT
GTGT (SEQ ID NO:6)

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FIG. 6

SV2 (>FMhXm_44226FL02_P1)

MALQGISVVELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSVLSDLKQP
RGAAVLRRLCRSDVLLPEFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRILA
GHDINYLALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTDKQVI
DANMVEGTAYLSSFLWKTQSSLWEAPRGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQF
YELLIKGLGLKSDELPNQMSMDDWPEMKKFADVFAKTKAEWCQIFDGTDACVTPVLT
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLNTPAIPSKRDPFIGEHTEEILEFGFS
REEIYQLNSDKIESNKAGSKFWILYPTHSNIQK (SEQ ID NO:7)

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FIG. 7A

SV3 (AMACR Isoform 3; >FMhx_m_44226FL03)

GGCGCCGGGATTGGGAGGGCTTCTGCAGGCTGCTGGCTGGGCTAAG
GGCTGCTCAGTTCTTCAGCGGGCACTGGGAAGCGCCATGGCACTGCA
GGGCATCTCGGTGAGCTGTCCGGCTGGCCCGGGCCGTTCTGTG
CTATGGTCTGGCTGACTTCGGGCGGTGAGCTGGACCGGGCCC
GGCTCCCGTACGACGTGAGCCGCTGGCCGGGCAAGCGCTCGCTAGT
GCTGGACCTGAAGCAGCCGGGGAGCCGCCGTGCTGCCGCTGTGCA
AGCGGTGGATGTGCTGGAGCCCTCCGCCGCGGTGTCATGGAGAAA
CTCCAGCTGGCCAGAGATTCTGCAGCGGGAAAATCCAAGGTTATTA
TGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCTG
GCCACGATATCAACTATTTGGCTTGTCAAGGTGGAAGAACAGCATATT
AAGTTCTTCTGTGAAACTCAGAAATCGAGTCTGTGGAAGCACCTC
GAGGACAGAACATTTGGATGGTGGAGCACCTTCTATACGACTTACAGG
ACAGCAGATGGGAATTCACTGGCTTGTGGAGCAATAGAACCCCCAGTTCTA
CGAGCTGCTGATCAAAGGACTGGACTAAAGTCTGTGAACTTCCCAATC
AGATGAGCATGGATGATTGCCAGAAATGAAGAAGAAGTTGCAGATGTA
TTGCAAAGAACAGAACAGGAGTGGTGTCAAATCTTGACGGCACAGA
TGCCTGTTGACTCCGGTTCTGACTTTGAGGAGGTTGTCATCATGATC
ACAACAAGGAACGGGGCTCGTTATCACCAGTGAGGAGCAGGACGTGAGC
CCCCGCCCTGCACCTCTGCTGTTAACACCCCCAGCCATCCCTTCTTCAA
AAGGGATCCTTCATAGGAGAACACACTGAGGAGATACTGAAGAATTG
GATTCAAGCCGCGAAGAGATTATCAGCTTAACACTCAGATAAAATCATTGAA
AGTAATAAGGTAAGCTAGTCTCTAATTCCAGGCCACGGCTCAAGTG
AATTGAATACTGCATTACAGTAGAGTAACACATAACATTGTATGCA
TGGAAACATGGAGGAACAGTATTACAGTGTCTTACACTCTAATCAAGAA
AAGAATTACAGACTCTGATTCTACAGTGATGATTGAAATTCTAAAAATGGT
TATCATTAGGGCTTTGATTATAAAACTTGGGTACTTAACTAAATTAA
TGGTAGTTATTCTGCCTTCAGTTGCTTGTATATTGTTGATATTAAG
ATTCTTGACTTATATTGAAATGGGTTCTAGTGAAGAACAGGAAATGATATAT
TCTTGAAGACATCGATATAACATTATTACACTCTGATTCTACATGTA
GAAAATGAGGAAATGCCACAAATTGTATGGTGTAAAGTCACGTGAAAC
AGAGTGTGGTTGCATCCAGGCCCTTGTCTGGTGTTCATGATCTCCC
TCTAACGACATTCAAACCTTAGCAACAGTTACACTTGTAAATTGC
AAAGAAAAGTTCACCTGTATTGAATCAGAACATGCCACTGAAAC
CATATCCAAAATAATGAGGAAATGTGTTGGCTCACTACGTAGAGTCCAGA
GGGACAGTCAGTTAGGGTTGCCTGTATCCAGTAACCTGGGGCTGTT
CCCCGGGGCTCTGGCTGTCAGCTTCTCCATGTGTTGATTT
CTCCTCAGGCTGGTAGCAAGTTCTGGATCTTACCCAAACACAGCAAC
ATCCAGAAATAAGATCTCAGGACCCCCAGCAAGTCGTTGTGTC
TTGGACTGAGTTAACAGCCTTCTTACACTGTCTTGACAAAGA
AGACGGGATTGTCTTACATAAAACAGCCTGCTCTGGAGCTCCCTGG
ACTCAACTCCTAAAGGCATGTGAGGAAGGGTAGATTCCACAATCTAAT
CCGGGTGCCATCAGAGTAGAGGGAGTAGAGAACGGATGTGGTAGGCCA
TCAATAAGGTCCATTCTGCCAGTATCTCAACTGCCGTTCAACAATCGA
AGAGGAAGGTGGAGCAGGTTCTTACAGTTGAGAAAACAGAGAC
TCAGAAGGGCTTCTAGTTCATGTTCCCTAGGCCACTGATTTTT
CATGGTGGCTTAGGCCAAAGAAATATCTAACCAATTATAAATAA
TTAGGTCCCCAACGAATTAAATATTATGTCTACCAACTTATTAGCTGCT
TGAAAATATAATACACATAAAATAATTATTTCTATTCTATT
CATTGTTAATCACAACACTTACTAAGGAGATGTATGCACCTATTGGACA

FIG. 7B

CTGTGCAACTTCTCACCTGGAATGAGATTGGACACTGCTGCCCTCATTT
CTGCTCCATGTTGGTGTCCATATAGTACTTGATTTTATCAGATGGCCT
GGAAAACCCAGTCTCACAAAAATATGAAATTATCAGAAGGATTATAGTC
AATCTTATGTTGAAAGAATGAACTACCTCACTAGTAGTTCACGTGATGTC
TGACAGATGTTGAGTTCATGTTGTTGTGTTCAAATTAAATATT
CTGAGATACTCTTGTGAGGTCACTCTAATGCCCTGGGTGCCCTGGCACAG
TTTTAGAAATACCAAGTTGAAAATATTGCTCAGGAATATGCAACTAGGAA
: GGGGCAGAACATCAGAATTAAAGCTTCATATTCTAGCCTCAGTCTGTT
CTTCAACCATTAGGAACCTTCCCATAAGGTTATGTTCCAGCCCCAG
GCATGGAGGATCACTTGAGGCCAAGAGTTCGAGACCAGCCTGGGAACCT
GGCTGGACCTCCGTTCTACGAAATAAAATAAAAAATTATCCAGGAAA
AAAAAAAAAAAAAAAAAAAAA (SEQ ID NO:8)

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FIG. 8

SV3 (>FMhxM_44226FL03_P1)

MALQGISVVELSGLAPGPFCAMVLADFGARVVDRPGSRYDVSRLGRGKRSLVLDLKQP
RGAAVLRRLCRSDVLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLA
GHDINYLALSGGRNSIFKFVSEIESVGSTSRTEHVGWWSTFLYDLQDSRWGIHGCW
SNRTPVLRAADQRTWTKV (SEQ ID NO:9)

2000 2000 2000 2000 2000

FIG. 9

SV4 (AMACR Isoform 4; >gi|14725916|ref|XM_043772.1| Homo sapiens alpha-methylacyl-CoA racemase (AMACR), mRNA)

TTGCAGGCTGCTGGCTGGGCTAAGGGCTGCTCAGTTCCCTCAGCGGG
GCACTGGGAAGGCCATGGCACTGCAGGGCATCTCGGTGAGCTGTC
CGGCCTGGCCCCGGGCCGTTCTGTCTATGGTCTGGCTGACTTCGGGG
CGCGTGTGGTACCGTGACGGCCCGCTCCCGCTACGACGTGAGCCGC
TTGGGCCGGGCAAGCGCTCGTAGTGCTGGACCTGAAGCAGCCGGGG
AGCCGCCGTGCTGCCGTGCAAGCGGTGGATGTGCTGCTGGAGC
CCTTCCGCCGCGGTGTCATGGAGAACTCCAGCTGGGCCAGAGATTCTG
CAGCGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTGCCA
GTCAGGAAGCTCTGCCGTTAGCTGCCACGATATCAACTATTTGGCTT
TGTCAGGTGTTCTCAAAAATTGGCAGAACAGCATTTAAGTTCTTG
CCGCTGAATCTCTGGCTGACTTGCTGGTGGCTTATGTGCACT
GGGCATTATAATGGCTCTTTGACCGCACACGCACTGGCAAGGGTCAGG
TCATTGATGCAAATATGGTGGAAAGGAACAGCATTTAAGTTCTTG
TGGAAAATCAGAAATCGAGTCTGTGGAAAGCACCTCGAGGACAGAACAT
GTTGGATGGTGGAGCACCTTCTATACGACTTACAGGACAGCAGATGGGG
AATTCAATGGCTGTTGGAGCAATAGAACCCCAGTTCTACGAGCTGCTGATC
AAAGGACTTGGACTAAAGTCTGATGAACTTCCCACAGATGAGCATGGA
TGATTGCCAGAAATGAAGAAGAAGTTGAGATGTATTGCAAAGAAGA
CGAAGGCAGAGTGGTCAATCTTGACGGCACAGATGCCGTGACT
CCGGTTCTGACTTTGAGGAGTTGTCATCATGATACAACAAGGAACG
GGGCTCGTTATCACCAGTGAGGAGCAGGACGTGAGCCCCGCCCTGCAC
CTCTGCTGTTAAACACCCAGCCATCCTCTTCAAAAGGGATCCTTTC
ATAGGAGAACACACTGAGGAGATACTTGAAGAATTGGATTGCCGCGA
AGAGATTTATCAGCTTAACACTCAGATAAAATCATTGAAAGTAATAAGGTAA
AAGCTAGTCTCAACTTCCAGGCCACGGCTCAAGTGAATTGAATACTG
CATTACAGTGTAGAGTAACACATAACATTGTATGCATGGAAACATGGAG
GAACAGTATTACAGTGTCTACCACTCTAAATCAAGAAAAGAATTACAGAC
TCTGATTCTACAGTGATGATTGAATTCTAAATGGTTATCATTAGGGCT
TTTGATTATAAAACTTGGGTACTTATACTAAATTATGGTAGTTATTCT
GCCTTCAGTTGCTGATATATTGTTGATATTAAGATTCTGACTTAT
ATTTGAATGGGTCTAGTAAAAAGGAATGATATATTCTGAAGACATC
GATATACTTATTTACACTCTGATTCTACAAATGTAGAAAATGAGGAAA
TGCCACAAATTGTATGGTATAAAAGTCACGTGAAACAGAGTGATTGGTT
GCATCCAGGCCTTGTCTGGTGTTCATGATCTCCCTCAAGCACATT
CAAACCTTAGCAACAGTTACACTTGTAAATTGCAAAGAAAAGTTTC
ACCTGTATTGAATCAGAACATGCCCTCAACTGAAAAAAACATATCCAAAATA
ATGAGGAAATGTGTTGGCTACTACGTAGAGTCCAGAGGACAGTCAGTT
TTAGGGTTGCCTGTATCCAGTAACCTGGGGCTGTTCCCGTGGGTCTC
TGGGCTGTAGCTTCTTCCATGTGTTGATTCTCCTCAGGCTGG
TAGCAAGTTCTGGATCTTATAACCAACACAGCAACATCCAGAAATAAA
GATCT (SEQ ID NO:10)

FIG. 10

SV3 (>gi|14725917|ref|XP_043772.1| alpha-methylacyl-CoA
racemase [Homo sapiens])

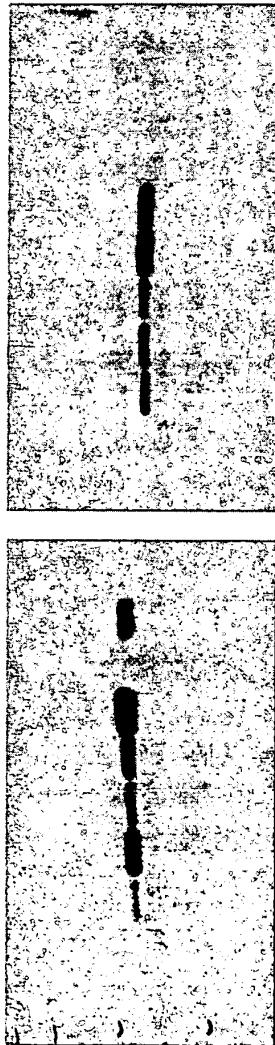
MALQGISVVELSGLAPGPFCAMVLADFGARVVVRDRPGSRYDVSRLGRGKRSVLSDLKQP
RGAAVLRLCKRSDVLLEPFRRGVMEMKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLA
GHDINYLAISGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTGKGQVI
DANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQF
YELLIKGLGLKSDELPNQMSDDWPEMKKFADVFAKKTAEWCQIFDGTDACVTPVLTF
EEVVVHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIIPSKRDPFIGEHTEEILEFGFS
REEIYQLNSDKIIESNKVKASL (SEQ ID NO:11)

1000 900 800 700 600 500 400 300 200 100

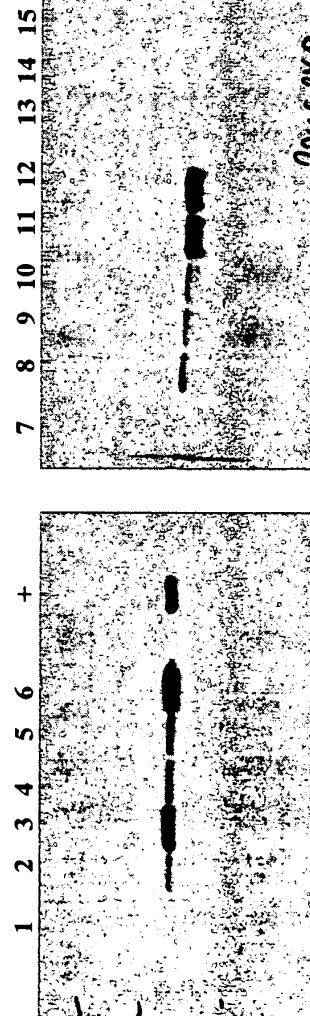
7) normal colon
 8) colon adenocarcinoma
 9) liver met (colon)
 10) normal liver
 11) normal kidney
 12) normal kidney
 13) normal brain
 14) normal muscle
 15) normal muscle

1) normal prostate
 2) prostate adenocarcinoma
 3) prostate adenocarcinoma
 4) lymph node met (prost)
 5) liver met (prost)
 6) liver met (prost)

1 2 3 4 5 6 + 7 8 9 10 11 12 13 14 15



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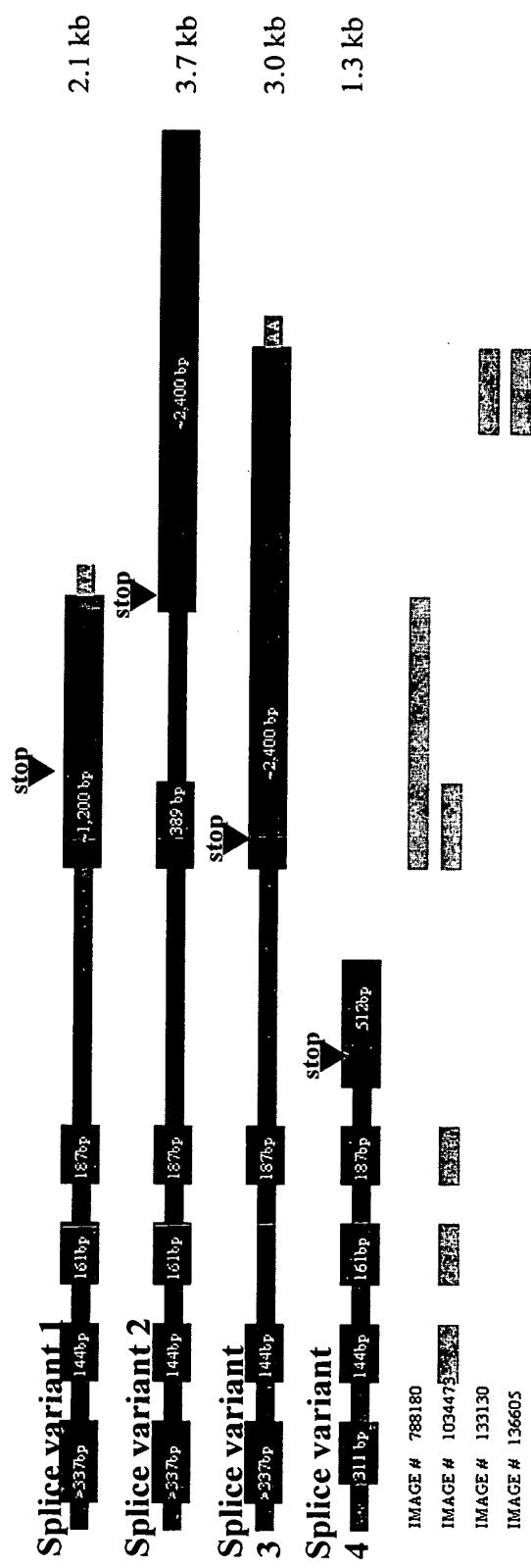


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FIG. 11

FIG. 12

Racemase splice variants identified by sequencing of IMAGE clones



1 22 S52P 85 L107P 382

FIG. 13

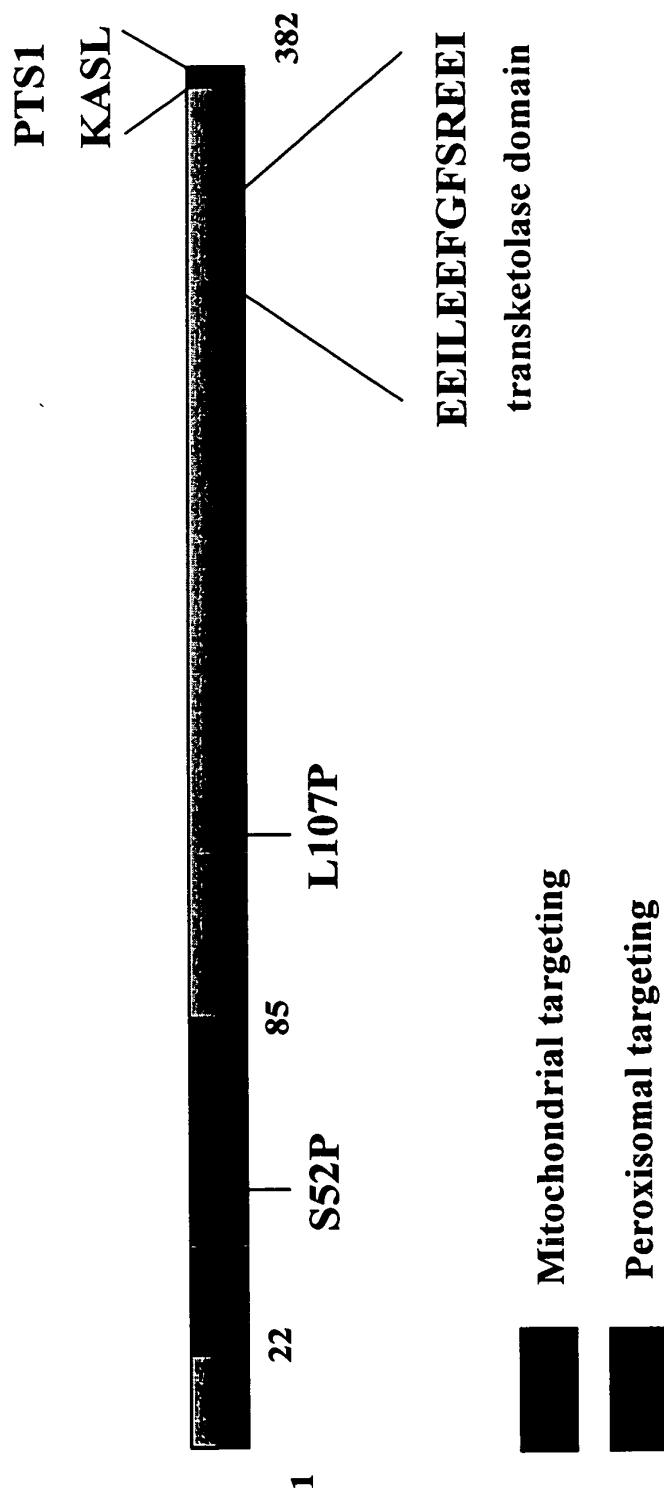


FIG. 1A

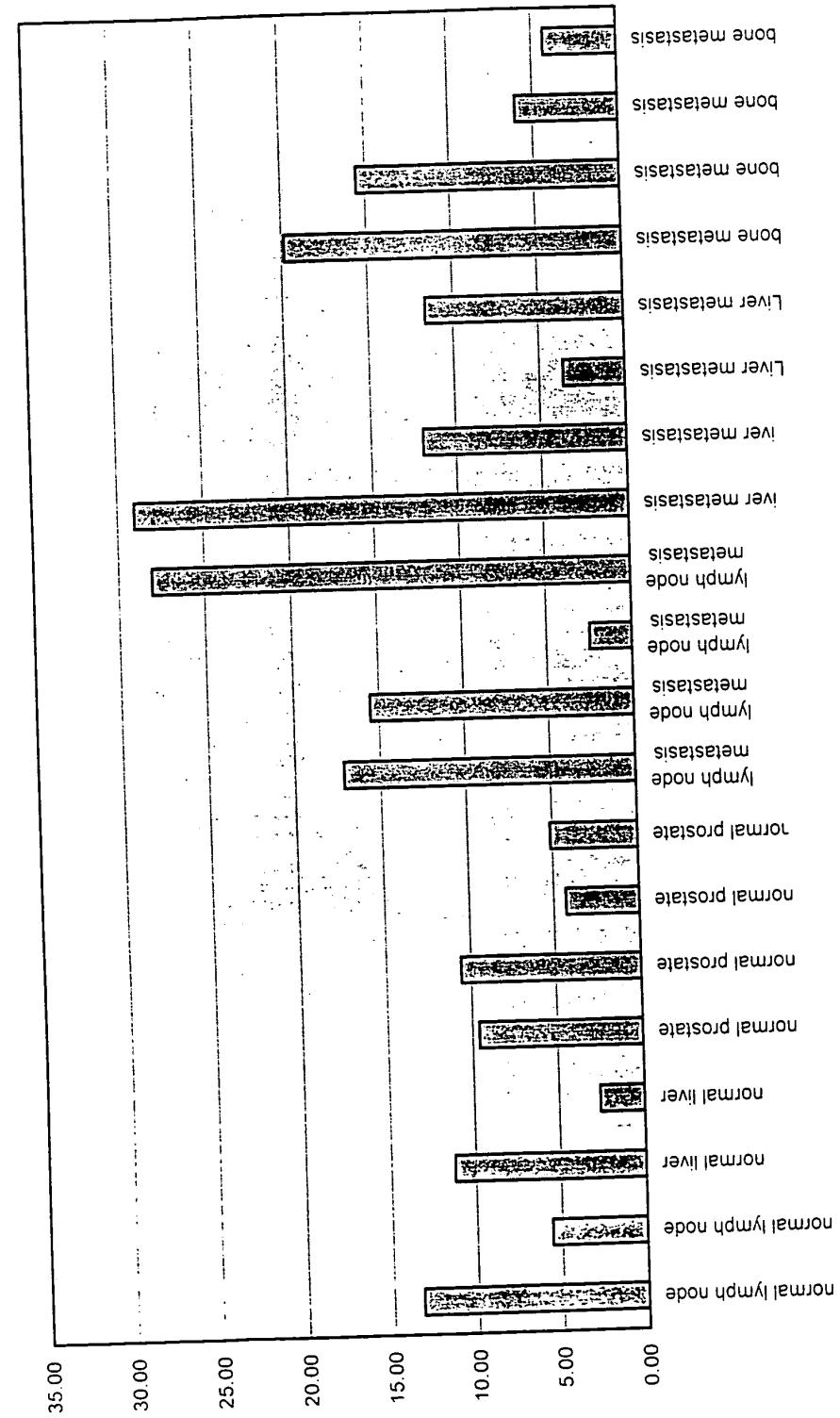


FIG. 1hB

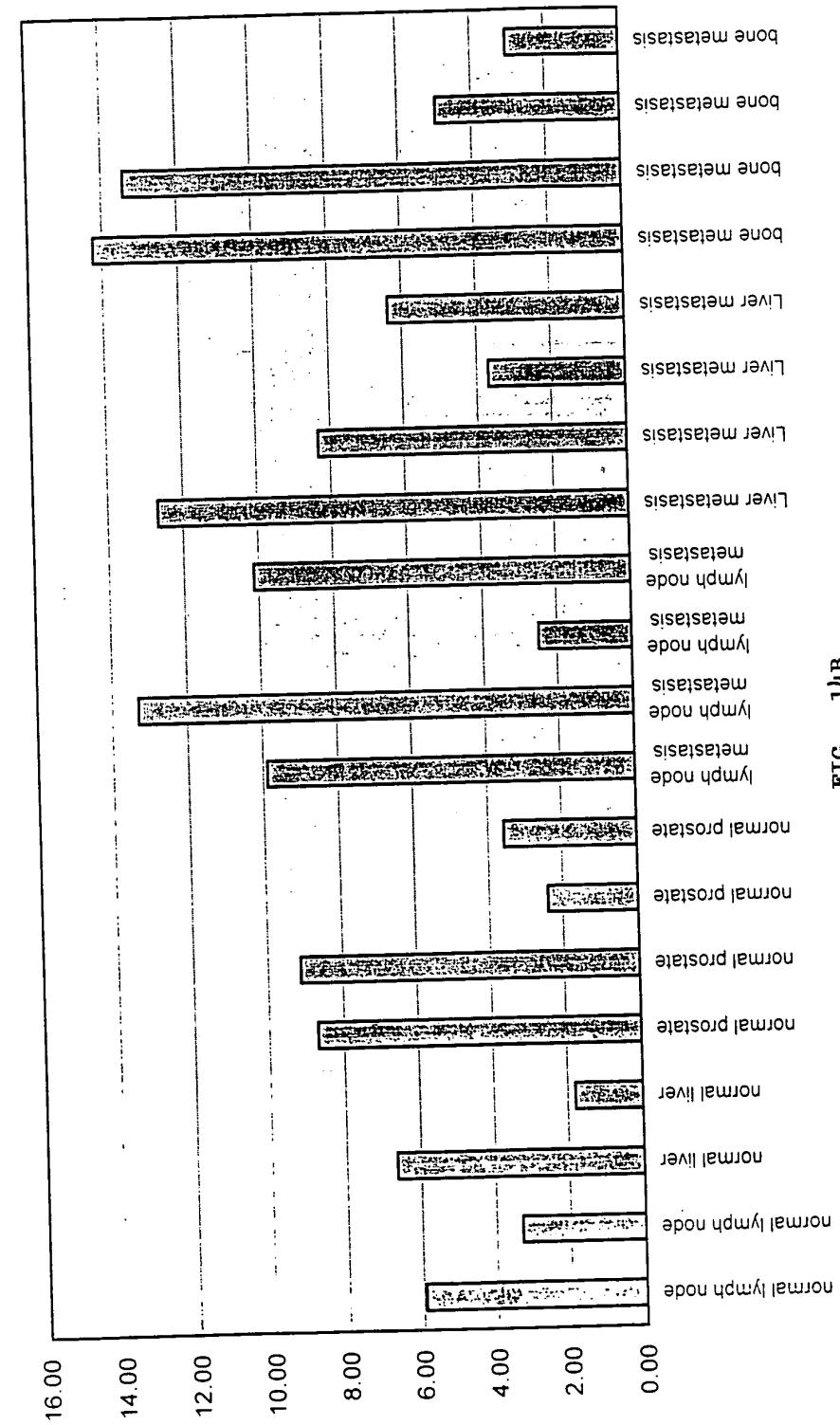


FIG. 14C

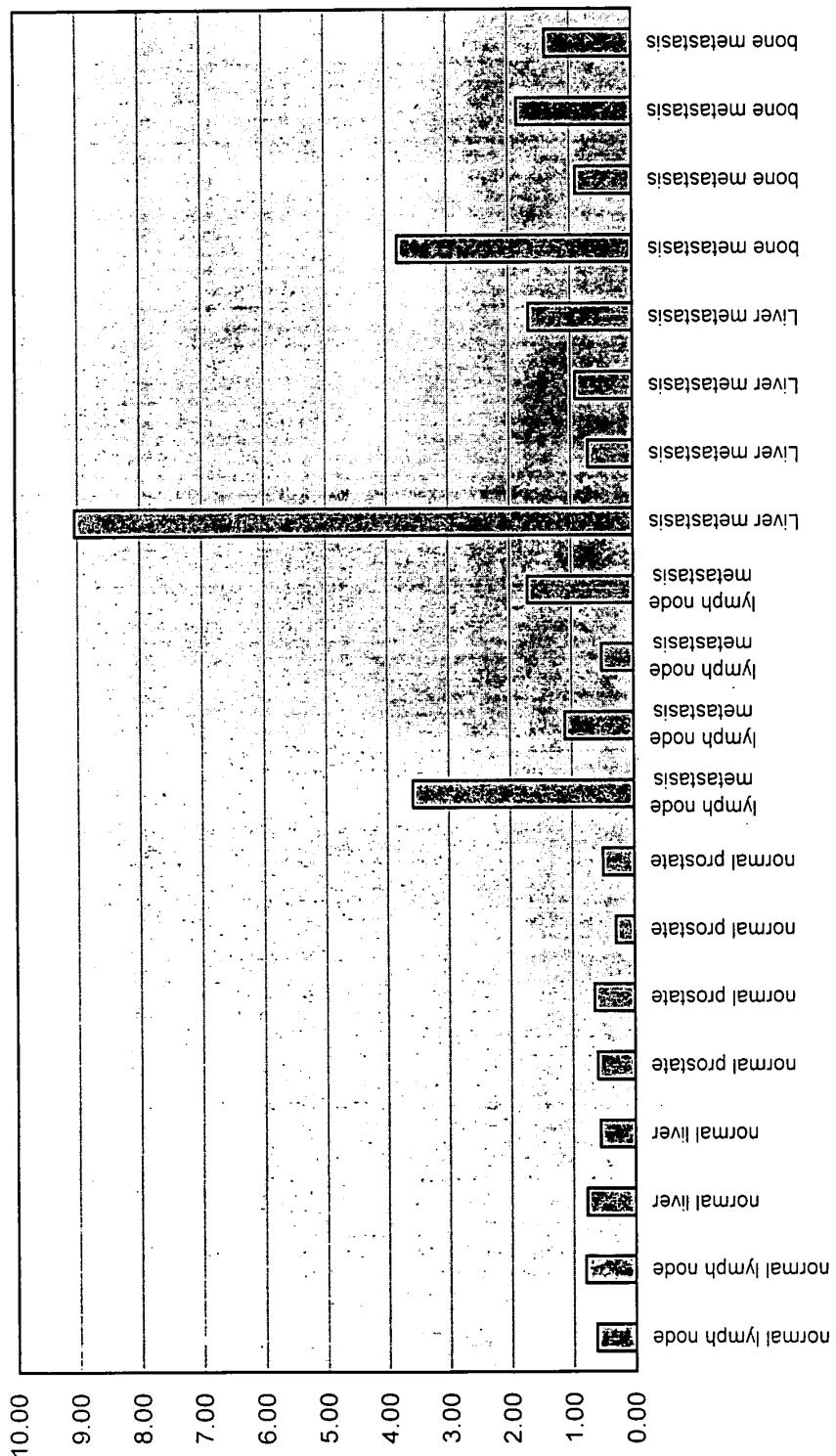


IMAGE clone 1034473: MID=44226 alpha-methylacyl-CoA racemase

IMAGE clone 788180: MID=44226 alpha-methylacyl-CoA racemase

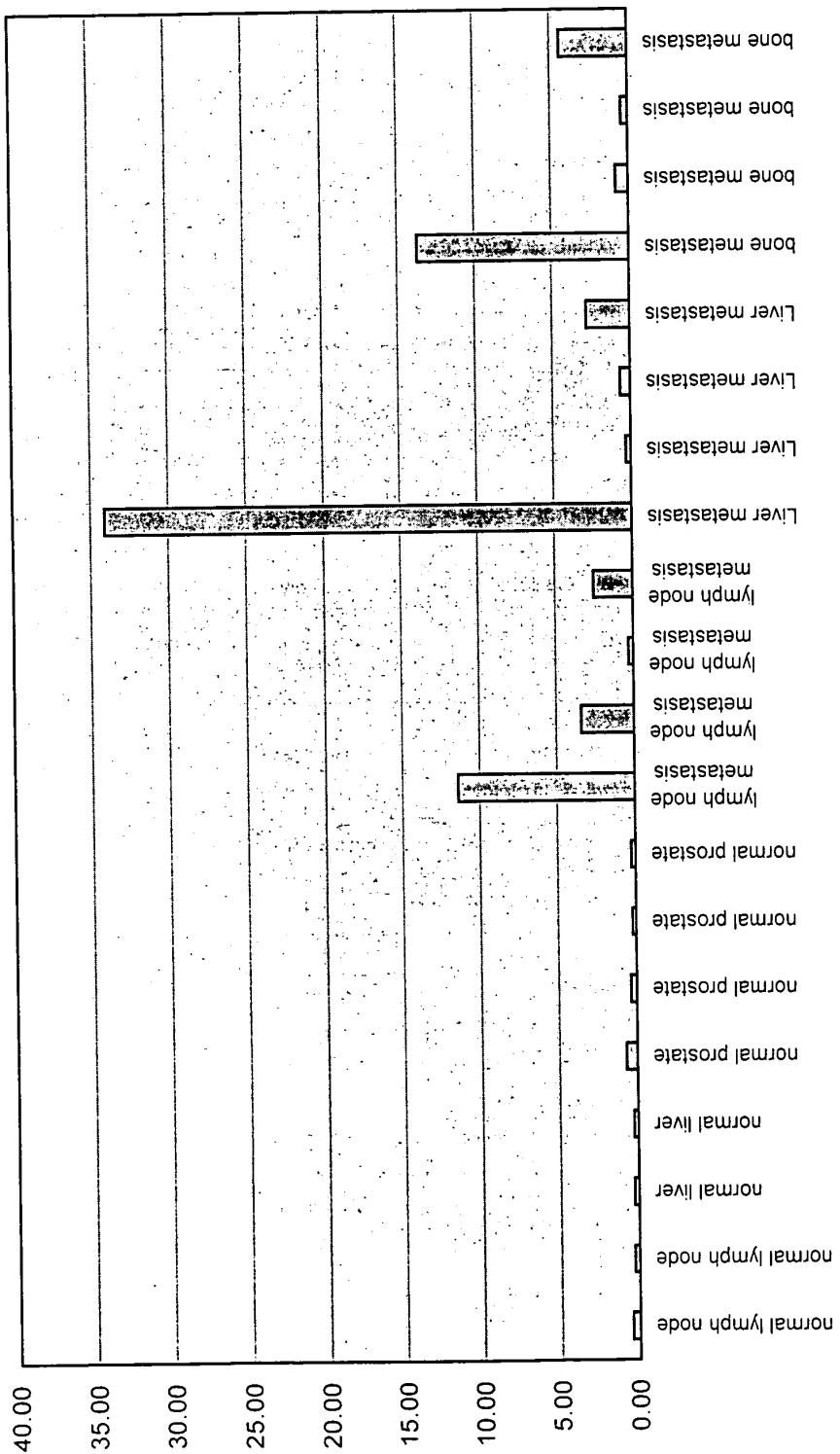


FIG. 14D